

RELIANCE

LED Apron Maneuvering Omnidirectional Inset, 8-inch



Compliance with Standards (current versions)

ICAO	Annex 14, Volume 1
IEC	61827
EASA	CS-ADR-DSN
Canada	TP 312
Australia	MOS 139
CE	

Uses

The RELIANCE™ 8-inch omnidirectional low-protrusion inset LED light fixture is provided with red or yellow LEDs. This fixture can be used in the following applications:

- Aircraft Stand Maneuvering Guidance

Features and Benefits

Efficiency

- RELIANCE IQ with integrated intelligence
- RELIANCE with integrated fail-open technology
- Operates on CCRs designed in compliance with IEC or FAA requirements
- Easy maintenance due to modular design, few mechanical parts
- No visual flicker. PWM is used for some applications to optimize the LED performance and light fixtures show no visual flickering.

Sustainability

- Light-emitting diode (LED) technology that offers a long-lasting light source with low power consumption
- IP68 protected, anodized aluminum housing designed for harsh weather environments (all fastenings in stainless steel)
- Protected top cover for improved durability and protection from external forces
- Compatible with existing infrastructure
- Fixture compatible with all ADB SAFEGATE 8-inch bases

Safety

- Light engine protected against towbar impact and high load upon maneuvering vehicles and aircrafts
- Shorted LED detection according to FAA Engineering Brief No.67D
- Available with IR as an option

Accessories

Refer to the RELIANCE inset user manual for 8-inch lights.

Power Supply

An integrated, encapsulated 6.6A electronic converter. Two-pole L-823 FAA Style 6 (2-pin) plug for connection to the transformer. Power factor typically > 0.95 at 6.6 A. Power consumption 35 W.

French (flat 3-pin) plugs are also available for the French market.

Note:

- Refer to the appendix of RELIANCE inset user manual for 8-inch lights for a complete power table and the cable loss formula.
- Refer to the annex section.

Maintenance and Installation

Refer to the RELIANCE inset user manual for 8-inch lights and to the interoperability information for installation in a specific base.

Dimensions and Weight

Outer diameter / depth	Approx. 203 mm / 81.35 mm 8 in / 3.2 in3
Weight without packaging	Approx. 2.8 kg 6.1 lb

Operating Conditions

Operating temperature	-60 °C to +55 °C / -76 °F to +131 °F
Storage temperature	-60 °C to +80 °C / -76 °F to +176 °F
Relative humidity	Up to 100%

RELIANCE

Ordering Code

RSAM

Standard

3 = ICAO

Market-Specific

0 = None

Dimensions

1 = 8-inch

Prism

P = 4 protected prisms

Beam Orientation

3 = Omnidirectional

Toe-in

N = Not applicable

Colors (Side 1)

R = Red

Y = Yellow

Colors (Side 2)

N = Not applicable

Power and Monitoring

M = 2.8 - 6.6 A, Monitoring

P = 2.8 - 6.6 A / 2A IQ0 (IQ disabled)¹

Q = 2.8 - 6.6 A / 2A IQ1 (IQ enabled)¹

Connector and Cable

1 = 1 x Style 6 2-pole plug, 2 individual wires

2 = 1 x Style 1 2-pole plug, 2-core cable

5 = 1 x flat 3-pole plug, 3 individual wires²

7 = No connector, cable only

Options

0 = None

Version

1 = First edition

Notes

¹ The IQ-functionality allows control and monitoring of the RELIANCE IQ. IQ1 fittings are pre-configured for the specific position at delivery. This function is disabled in IQ0 fittings but could be enabled in a later state.

IQ light fixtures are only available as one connector option but both sides can be controlled individually if they are configured as IQ1 with an ILCMS.

² French 3-pin plug

Note: Deep base and / or adapter rings to be ordered separately.

ANNEX

Fixture type	Fixture load	Isolation transformer			CCR load
		Rating	Loss	Efficiency	
RS -AM (omnidirectional, inset)	35 VA	45 W	7 VA	0.85	45 VA

Note:

- Extra losses in secondary cables or due to extra equipment (e.g. ILCMS remotes) are not included in above table; these extra losses will result in a higher required size of isolation transformers.
- Extra losses in primary cables are not included in above table; these extra losses will result in a higher required CCR load.
- Efficiency of the transformer may vary depending on manufacturer.

For more information about the product, including manuals and certifications, please see our Product Center on the ADB SAFEGATE website: www.adbsafegate.com.